

**IN THE CLAIMS**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (cancelled)
2. (cancelled)
3. (currently amended) A magnetic core as recited by claim 12, wherein said alloy is in the form of ribbon wound in a toroidal shape to produce said core.
4. (cancelled)
5. (previously presented) An inductor, comprising a magnetic core as recited by claim 3 and a first copper winding on said core.
6. (cancelled)
7. (cancelled)
8. (previously presented) A current transformer, comprising the inductor of claim 5 and an additional copper wire winding on said core, the additional winding being adapted to carry an electrical current to be measured.
9. (previously presented) A current transformer comprising the inductor of claim 5 and an additional copper wire inserted into a hollow geometrically center section of said core, the additional wire being adapted to carry an electrical current to be measured.
10. (previously presented) A current transformer, as recited by claim 8, wherein said first copper winding is adapted to be connected to a voltmeter for measurement of the electrical current in said additional wire winding.

11. (previously presented) A current transformer, as recited by claim 9, wherein said first copper winding is adapted to be connected to a voltmeter for measurement of the electrical current in said additional wire.
12. (currently amended) A magnetic core, consisting essentially of an amorphous iron-based alloy having as recited by claim 2, wherein said amorphous iron-based alloy has a composition consisting essentially of about 70-87 atom percent iron, of which up to about 20 atom percent of iron is optionally replaced by cobalt and up to about 3 atom percent of iron is optionally replaced by nickel, manganese, vanadium, titanium or molybdenum, and about 13-30 atom percent of elements selected from the group consisting of boron, silicon and carbon and a saturation induction exceeding about 10 kG (1 tesla), said core having a linear B-H characteristic with a permeability, said permeability being constant within an applied field between -15 Oe and +15 Oe and at a frequency range up to about 1000 kHz.